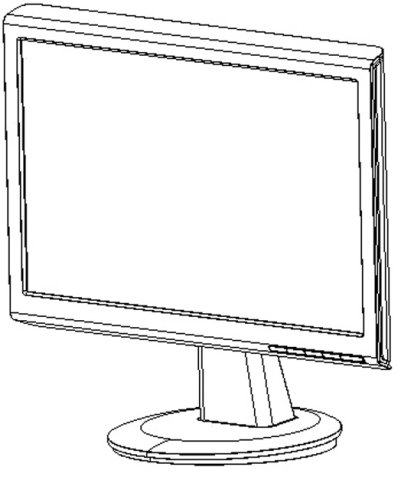
E4281 V1
Oct 2008

VH162 Series
LCD Monitor

User Guide



Downloaded from ManualMonitor.com Manuals

Table of contents

Notices iii

Safety information iv

Care & Cleaning v

Chapter 1: Product introduction

1.1 Welcome! 1-1

1.2 Package contents 1-1

1.3 Assembling the monitor base 1-2

1.4 Monitor introduction 1-3

1.4.1 Front of the LCD monitor 1-3

1.4.2 Rear of the LCD monitor 1-4

Chapter 2: Setup

2.1 Adjusting the monitor 2-1

2.2 Detaching the arm/stand (for VESA wall mount) 2-2

Chapter 3: General Instruction

3.1 OSD (On-Screen Display) menu 3-1

3.1.1 How to reconfigure 3-1

3.1.2 OSD Function Introduction 3-1

3.2 Specifications summary 3-4

3.3 Troubleshooting (FAQ) 3-5

3.4 Supported operating modes 3-6

Copyright © 2007 ASUSTeK COMPUTER INC. All Rights Reserved.

No part of this manual, including the products and software described in it, may be reproduced, transmitted, transcribed, stored in a retrieval system, or translated into any language in any form or by any means, except documentation kept by the purchaser for backup purposes, without the express written permission of ASUSTeK COMPUTER INC. (“ASUS”).

Product warranty or service will not be extended if: (1) the product is repaired, modified or altered, unless such repair, modification of alteration is authorized in writing by ASUS; or (2) the serial number of the product is defaced or missing.

ASUS PROVIDES THIS MANUAL “AS IS” WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OR CONDITIONS OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT SHALL ASUS, ITS DIRECTORS, OFFICERS, EMPLOYEES OR AGENTS BE LIABLE FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES (INCLUDING DAMAGES FOR LOSS OF PROFITS, LOSS OF BUSINESS, LOSS OF USE OR DATA, INTERRUPTION OF BUSINESS AND THE LIKE), EVEN IF ASUS HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES ARISING FROM ANY DEFECT OR ERROR IN THIS MANUAL OR PRODUCT.

SPECIFICATIONS AND INFORMATION CONTAINED IN THIS MANUAL ARE FURNISHED FOR INFORMATIONAL USE ONLY, AND ARE SUBJECT TO CHANGE AT ANY TIME WITHOUT NOTICE, AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY ASUS. ASUS ASSUMES NO RESPONSIBILITY OR LIABILITY FOR ANY ERRORS OR INACCURACIES THAT MAY APPEAR IN THIS MANUAL, INCLUDING THE PRODUCTS AND SOFTWARE DESCRIBED IN IT.

Products and corporate names appearing in this manual may or may not be registered trademarks or copyrights of their respective companies, and are used only for identification or explanation and to the owners’ benefit, without intent to infringe.

Downloaded from ManualMonitor.com Manuals

Notices

Federal Communications Commission Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference, and
- This device must accept any interference received including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with manufacturer' s instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

As an Energy Star® Partner, our company has determined that this product meets the Energy Star® guidelines for energy efficiency.

Canadian Department of Communications Statement

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

This class B digital apparatus complies with Canadian ICES-003.

Downloaded from ManualMonitor.com Manuals

Safety information

- Before setting up the monitor, carefully read all the documentation that came with the package.
- To prevent fire or shock hazard, never expose the monitor to rain or moisture.
- Never try to open the monitor cabinet. The dangerous high voltages inside the monitor may result in serious physical injury.
- If the power supply is broken, do not try to fix it by yourself. Contact a qualified service technician or your retailer.
- Before using the product, make sure all cables are correctly connected and the power cables are not damaged. If you detect any damage, contact your dealer immediately.
- Slots and openings on the back or top of the cabinet are provided for ventilation. Do not block these slots. Never place this product near or over a radiator or heat source unless proper ventilation is provided.
- The monitor should be operated only from the type of power source indicated on the label. If you are not sure of the type of power supply to your home, consult your dealer or local power company.
- Use the appropriate power plug which complies with your local power standard.
- Do not overload power strips and extention cords. Overloading can result in fire or electric shock.
- Avoid dust, humidity, and temperature extremes. Do not place the monitor in any area where it may become wet. Place the monitor on a stable surface.
- Unplug the unit during a lightning storm or if it will not be used for a long period of time. This will protect the monitor from damage due to power surges.
- Never push objects or spill liquid of any kind into the slots on the monitor cabinet.
- To ensure satisfactory operation, use the monitor only with UL listed computers which have appropriate configured receptacles marked between 100-240V AC.
- If you encounter technical problems with the monitor, contact a qualified service technician or your retailer.

Downloaded from ManualMonitor.com Manuals

Care & Cleaning

- Before you lift or reposition your monitor, it is better to disconnect the cables and power cord. Follow the correct lifting techniques when positioning the monitor. When lifting or carrying the monitor, grasp the edges of the monitor. Do not lift the display by the stand or the cord.
- Cleaning. Turn your monitor off and unplug the power cord. Clean the monitor surface with a lint-free, non-abrasive cloth. Stubborn stains may be removed with a cloth dampened with mild cleaner.
- Avoid using a cleaner containing alcohol or acetone. Use a cleaner intended for use with the LCD. Never spray cleaner directly on the screen, as it may drip inside the monitor and cause an electric shock.

The following symptoms are normal with the monitor:

- The screen may flicker during the initial use due to the nature of the fluorescent light. Turn off the Power Switch and turn it on again to make sure that the flicker disappears.
- You may find slightly uneven brightness on the screen depending on the desktop pattern you use.
- When the same image is displayed for hours, an afterimage of the previous screen may remain after switching the image. The screen will recover slowly or you can turn off the Power Switch for hours.
- When the screen becomes black or flashes, or cannot work anymore, contact your dealer or service center to fix it. Do not repair the screen by yourself!

Conventions used in this guide

WARNING: Information to prevent injury to yourself when trying to complete a task.

CAUTION: Information to prevent damage to the components when trying to complete a task.

IMPORTANT: Information that you MUST follow to complete a task.

NOTE: Tips and additional information to aid in completing a task.

Downloaded from ManualMonitor.com Manuals

Where to find more information

Refer to the following sources for additional information and for product and software updates.

1. **ASUS websites**

   The ASUS websites worldwide provide updated information on ASUS hardware and software products. Refer to **http://www.asus.com**

2. **Optional documentation**

   Your product package may include optional documentation, such as warranty card, that may have been added by your dealer. These documents are not part of the standard package.

Downloaded from ManualMonitor.com Manuals

1.1 Welcome!

Thank you for purchasing the ASUS® VH162 Series LCD monitor!

The latest widescreen LCD monitor from ASUS provides a crisper, broader, and brighter display, plus a host of features that enhance your viewing experience.

With these features, you can enjoy the convenience and delightful visual experience that the VH162 Series brings you!

1.2 Package contents

Check your VH162 Series LCD package for the following items:

- ✓ LCD monitor
- ✓ Monitor base
- ✓ Quick Start Guide
- ✓ 1 x Power cord
- ✓ 1 x VGA cable
- ✓ 1 x Audio cable (Only for VH162S)

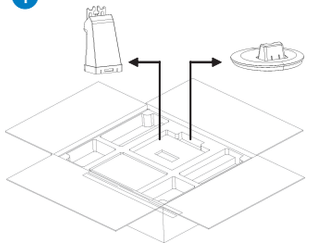
If any of the above items is damaged or missing, contact your retailer immediately.

Downloaded from ManualMonitor.com Manuals

1.3 Assembling the monitor base

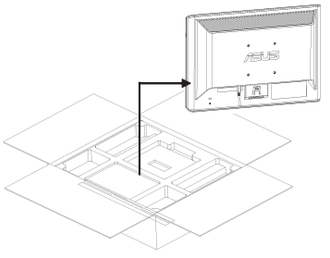
To assemble the monitor :

1



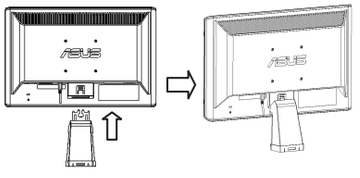
Open carton, take out base and stand.

2



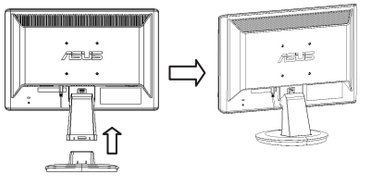
Remove cushion, take out monitor set

3



Assembly monitor with stand

4

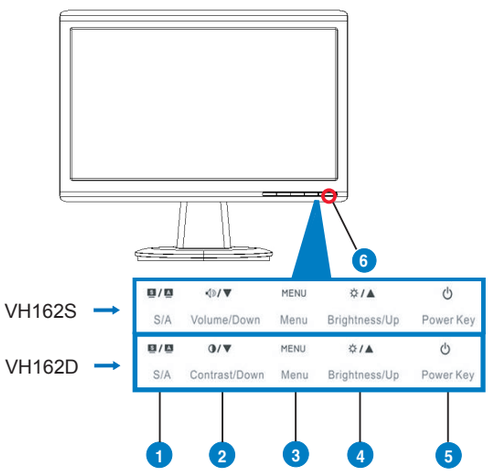


Assembly monitor with base

Downloaded from ManualMonitor.com Manuals

1.4 Monitor introduction

1.4.1 Front of the LCD monitor



1. S / A Button:
   - Automatically adjust the image to its optimized position, clock, and phase by long pressing this button for 2-4 seconds (for VGA mode only).
   - Use this hotkey to switch from five video preset modes (Game Mode, Night View Mode, Scenery Mode, Standard Mode, Theater Mode) with SPLENDID™ Video Enhancement Technology.
   - Exit the OSD menu or go back to the previous menu as the OSD menu is active.
2. ◁)/▼ Button(for VH162S):
   - Press this button to decrease the value of the function selected or move to the previous fuction.
   - This is also a hotkey for Volume adjustment.

   ◑/▼ Button(for VH162D):
   - Press this button to decrease the value of the function selected or move to the previous fuction.
   - This is also a hotkey for Contrast Ratio adjustment.
3. MENU Button:
   - Press this button to enter/select the icon (function) highlighted while the OSD menu is activated.
4. ☼/▲ Button:
   - Press this button to increase the value of the function selected or move to the next fuction.
   - This is also a hotkey for Brightness adjustment.

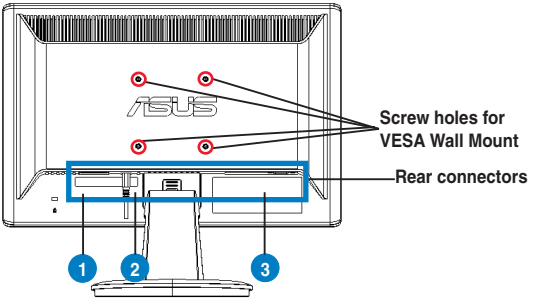
Download from Monitor.com Manuals

5. Power button:
   - Press this button to turn the monitor on/off.

6. Power indicator
   - The color definition of the power indicator is as the below table.

Status	Description
Blue	ON
Amber	Standby mode
OFF	OFF

1.4.2 Rear of the LCD monitor



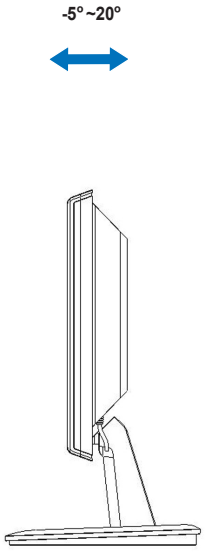
Rear connectors (from left to right)

1. **AC-IN port**. This port connects the power connector from the bundled power cord.
2. **Audio-in port**. This port connects PC audio source by the bundled audio cable.(Only for some models)
3. **VGA port**. This 15-pin port is for PC VGA connection.

Downloaded from ManualMonitor.com Manuals

2.1 Adjusting the monitor

- For optimal viewing, we recommend that you look at the full face of the monitor, then adjust the monitor to the angle that is most comfortable for you.
- Hold the stand to prevent the monitor from falling when you change its angle.
- You can adjust the monitor's angle from -5° to 20°.



Download pdf from ManualsLib.com Manuals

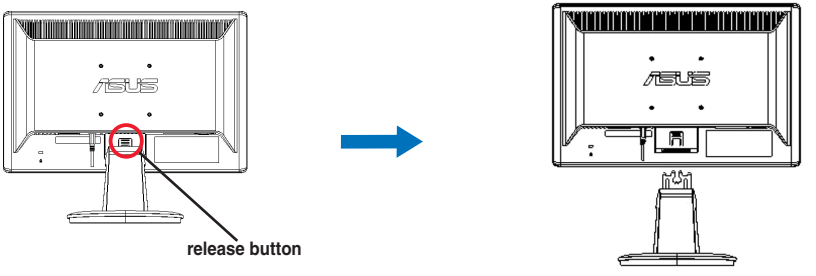
2.2 Detaching the arm/stand (for VESA wall mount)

The detachable stand of the VH162 Series LCD monitor is specially designed for VESA wall mount.

To detach the arm/stand:

1. Have the front of the monitor face down on a table.
2. Press the release button.
3. Detach the arm from the monitor.

- We recommend that you cover the table surface with soft cloth to prevent damage to the monitor.



The VESA wall mount kit (75 mm x 75 mm) is purchased separately.

For use only with UL Listed Wall Mount Bracket with minimum weight/load 2.7 Kg (Screw size: 4mm x 12 mm)

Downloaded from ManualMonitor.com Manuals

3.1 OSD (On-Screen Display) menu

3.1.1 How to reconfigure

1. Press the MENU button to activate the OSD menu.

2. Press − and + to navigate through the functions. Highlight and activate the desired function by pressing the MENU button. If the function selected has a sub-menu, press + and - again to navigate through the sub-menu functions. Highlight and activate the desired sub-menu function by pressing the MENU button.
3. Press − and + to change the settings of the selected function.
4. To exit the OSD menu, press the S button. Repeat step 2 and step 3 to adjust any other function.

3.1.2 OSD Function Introduction

1. Spendid

This function contains five sub-functions you can select for your preference. Each mode has the Reset selection, allowing you to maintain your setting or return to the preset mode.

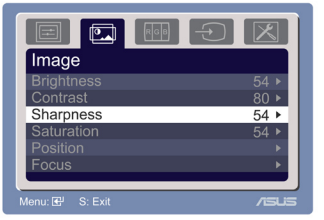
- **Scenery Mode**: best choice for scenery photo display with SPLENDID™ Video Enhancement.
- **Standard Mode**: best choice for document editing with SPLENDID™ Video Enhancement.
- **Theater Mode**: best choice for movie with SPLENDID™ Video Enhancement.
- **Game Mode**: best choice for game playing with SPLENDID™ Video Enhancement.
- **Night View Mode**: best choice for dark-scene game or movie with SPLENDID™ Video Enhancement.

- In the Standard Mode, the **Satuation** and **Sharpness** functions are not user-configurable.
- In the other modes, the **sRGB** function is not user-configurable.

Download from Monitor.com Manuals

2. Image

You can adjust brightness, contrast, sharpness, saturation,position (VGA only), and focus (VGA only) from this main function.

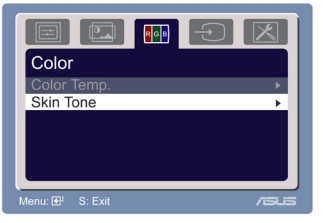


- Brightness: the adjusting range is from 0 to 100. + is a hotkey to activate this function.
- Contrast: the adjusting range is from 0 to 100.
- Sharpness: the adjusting range is from 0 to 100.
- Saturation: the adjusting range is from 0 to 100.
- Position: adjusts the horizontal postition (H-Position) and the vertical position (V-Position) of the image. The adjusting range is from 0 to 100.
- Focus: reduces Horizonal-line noise and Vertical-line noise of the image by adjusting (Phase) and (Clock) separately. The adjusting range is from 0 to 100.

- Phase adjusts the phase of the pixel clock signal. With a wrong phase adjustment, the screen shows horizontal disturbances.
- Clock (pixel frequency) controls the number of pixels scanned by one horizontal sweep. If the frequency is not correct, the screen shows vertical stripes and the image is not proportional.

3. Color

Select the image color you like from this function.



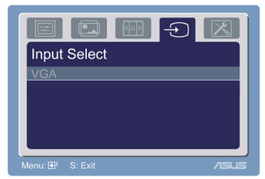
- Color Temp.: contains five color modes including Cool, Normal, Warm, sRGB, and User mode.
- Skin Tone: contains three color modes including Reddish, Natural, and Yellowish.

In the User mode, colors of R (Red), G (Green), and B (Bluee) are user-configurable; the adjusting range is from 0-100.

Downloaded from ManualMonitor.com Manuals

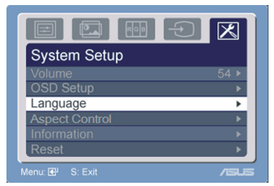
4. Input Select

In this function, you can only select VGA input source.



5. System Setup

Allow you to adjust the system.



- Volume: the adjusting range is from 0 to 100. - is a hotkey to activate this function.
- OSD Setup: adjusts the horizontal postition (H-Position) and the vertical position (V-Position) of the OSD. The adjusting range is from 0 to 100. In the OSD Timeout selection, you can adjust the OSD timeout from 10 to 120.
- Language: there are ten languages for your selection, including English, German, Italian, French, Dutch, Spanish, Russian, Traditional Chinese, Simplified Chinese, Japanese, and Korean.
- Aspect Controls: adjusts the aspect ratio to "1366X768" or "4:3" or "1360X768"
- Information: shows the monitor information.
- Reset: "Yes" allows you to revert to the preset mode.

Downloaded from Monitor.com Manuals

3.2 Specifications summary

Model Name	VH162S	VH162D
Panel Size	15.6"Wide Screen	15.6"Wide Screen
Max. Resolution	WXGA+ 1366x768	WXGA+ 1366x768
Brightness (Typ.)	250	250
Contrast Ratio (Typ.)	500:1	500:1
Viewing Angle (H/V), CR≧10	90/65	90/65
Display Colors	16.7M	16.7M
Response Time	8ms (Tr+Tf)	8ms (Tr+Tf)
SPLENDID TM Video Enhancement	yes	yes
SPLENDID TM selection	5 video preset modes (by hotkey)	5 video preset modes (by hotkey)
Auto adjustment	yes (by hotkey)	yes (by hotkey)
Color temperature selection	5 colors temperatures	5 colors temperatures
Skin-Tone selection	3 skin-tones	3 skin-tones
Digital Input	N/A	N/A
Analog input	Yes	Yes
Audio-in port	3.5mm Mini-Jack	N/A
Colors	Black	Black
Speaker (built-in)	1W x 2 stereo	N/A
Power LED	Blue (On) Amber (Standby)	Blue (On) Amber (Standby)
VESA Wall Mount	75 x 75mm	75 x 75mm
Tilt	+20° ~ -5°	+20° ~ -5°
Kensington lock	yes	yes
Voltage rating	AC: 100~240V	AC: 100~240V
Physical Dimension (WxHxD)	376.4(W)x318.8(H) x190(D)	376.4(W)x318.8(H) x190(D)
Box Dimension (WxHxD)	322x132x450mm	322x132x450mm
Net Weight (Esti.)	2.7kg	2.7kg
Gross Weight (Esti.)	3.8kg	3.8kg

***Specifications are subject to change without notice.**

Downloaded from ManualMonitor.com Manuals

3.3 Troubleshooting (FAQ)

Problem	Possible Solution
Power LED is not ON	• Press the ⏻ button to check if the monitor is in the ON mode. • Check if the power cord is properly connected to the monitor and the power outlet.
The power LED lights amber and there is no screen image	• Check if the monitor and the computer are in the ON mode. • Make sure the signal cable is properly connected the monitor and the computer. • Inspect the signal cable and make sure none of the pins are bent. • Connect the computer with another available monitor to check if the computer is properly working.
Screen image is too light or dark	• Adjust the Contrast and Brightness settings via OSD.
Screen image is not centered or sized properly	• Press the S button for two seconds to automatically adjust the image. • Adjust the H-Position or V-Position settings via OSD.
Screen image bounces or a wave pattern is present in the image	• Make sure the signal cable is properly connected to the monitor and the computer. • Move electrical devices that may cause electrical interference.
Screen image has color defects (white does not look white)	• Inspect the signal cable and make sure that none of the pins are bent. • Perform Reset via OSD. • Adjust the R/G/B color settings or select the Color Temperature via OSD.
Screen image is blurry or fuzzy	• Press the S button for two seconds to automatically adjust the image (for VGA mode only). • Adjust the Phase and Clock settings via OSD.
No sound or sound is low	• Ensure that the audio cable is properly connected to the monitor and the computer • Adjust the volume settings of both your monitor and computer. • Ensure that the computer sound card driver is properly installed and activated.

Downloaded from Monitor.com Manuals

3.4 Supported operating modes

VESA Modes, Factory Preset Timings

Mode	Format	Input Aspect Ratio	Resolution	Total	H(KHz)	V(Hz)	Pixel (MHz)
VGA	DMT	4:3	640x480,60Hz	800 x 525	31.469, N	59.94, N	25.175
			640x480,72Hz	832 x 520	37.861, N	72.809, N	31.5
			640x480,75Hz	840 x 500	37.5, N	75, N	31.5
SVGA	DMT	4:3	800x600,56Hz	1024 x 625	35.156, P	56.25, P	36
			800x600,60Hz	1056 x 628	37.879, P	60.317, P	40
			800x600,72Hz	1040 x 666	48.077, P	72.188, P	50
			800x600,75Hz	1056x625	46.875, P	75, P	49.5
XGA	DMT	4:3	1024x768,60Hz	1344x806	48.363, N	60.004, N	65
			1024x768,70Hz	1328x806	56.476, N	70.069, N	75
			1024x768,75Hz	1312x800	60.023, P	75.029, P	78.75
WXGA+	DMT	16:9	1360x768,60Hz	1792x795	47.712, P	60.015, P	85.5

IBM Modes, Factory Preset Timings

Mode	Format	Input Aspect Ratio	Resolution	Total	H(KHz)	V(Hz)	Pixel (MHz)
DOS	IBM		640x350, 70Hz	800 x 449	31.469, P	70.087, N	25.175
DOS	IBM		720x400, 70Hz	900 x 449	31.469, N	70.087, P	28.322

MAC Modes, Factory Preset Timings

Mode	Format	Input Aspect Ratio	Resolution	Total	H(KHz)	V(Hz)	Pixel(MHz)
VGA	MAC	4:3	640x480, 67Hz	864x525	35, N	66.667, N	30.24
SVGA	MAC	4:3	832x624, 75Hz	1152x667	49.725, N	74.551, N	57.2832

VESA Modes, User Available Timings

Mode	Format	Input Aspect Ratio	Resolution	Total	H(KHz)	V(Hz)	Pixel (MHz)
720P	CVT	16:9	1280x720, 60Hz	1664x748	44.772, N	59.855, P	74.5
	CVT	16:9	1280x720, 75Hz	1696x755	56.456, N	74.777, P	95.75
WXGA	CVT		1280x768, 60Hz	1664x798	47.776, N	59.87, P	79.5
	CVT		1280x768, 75Hz	1696x805	60.289, N	74.893, P	102.25
	CVT	16:10	1280x800, 60Hz (*Note 1)	1680x831	49.702, N	59.81, P	83.5
	CVT	16:10	1280x800, 75Hz (*Note 1)	1696x838	62.795, N	74.934, P	106.5
WXGA+	CVT	16:9	1360x768,60Hz	1776x798	47.72, N	59.799, P	84.75
	CVT	16:9	1360x768,75Hz	1808x805	60.288, N	74.891, P	109
			1366x768,60Hz	1782x798	47.72, N	59.799, P	85.32
			1366x768,75Hz	1814x805	60.288, N	74.891, P	109.52

Downloaded from ManualMonitor.com Manuals